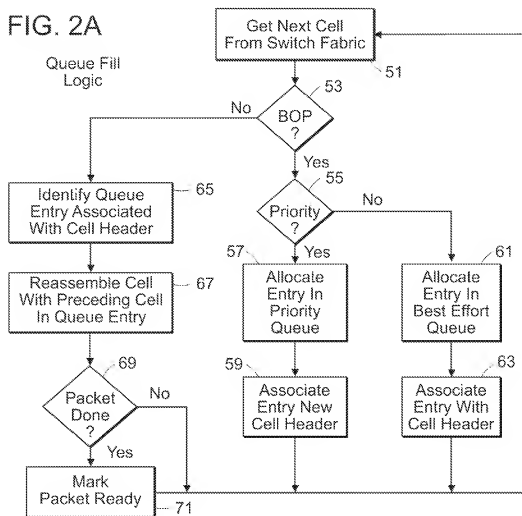


FIG. 1

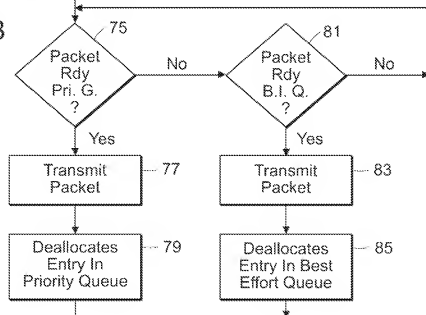
2/6

FIG. 2A



Queue Drain Logic

FIG. 2B



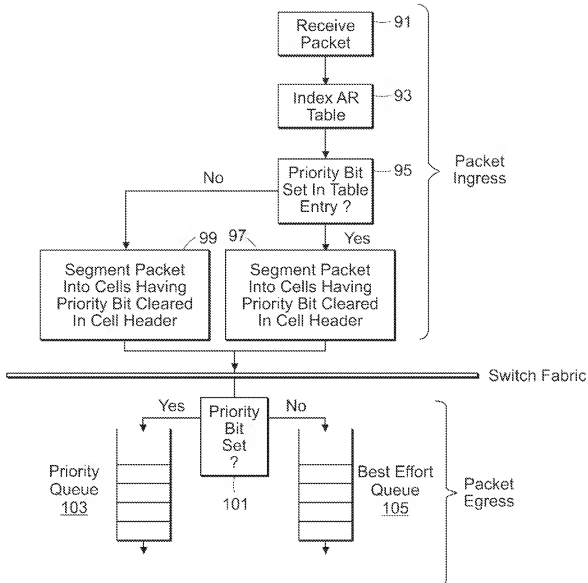


FIG. 3

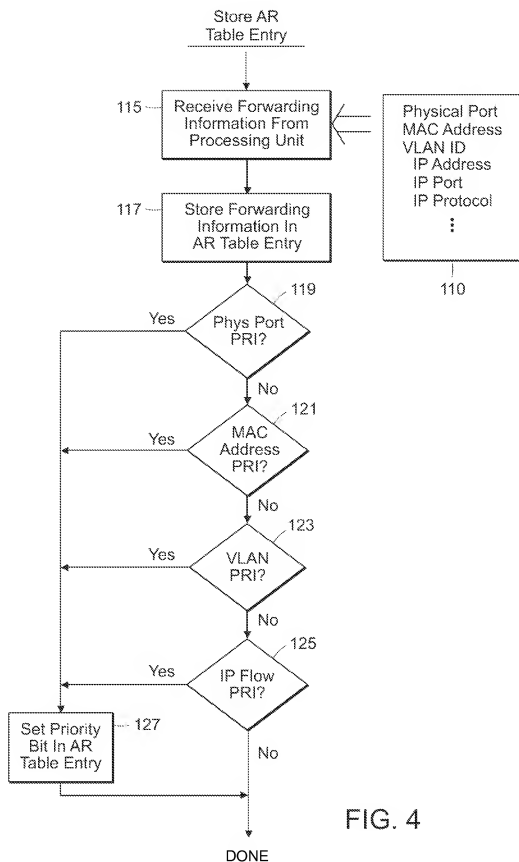


FIG. 4

5/6

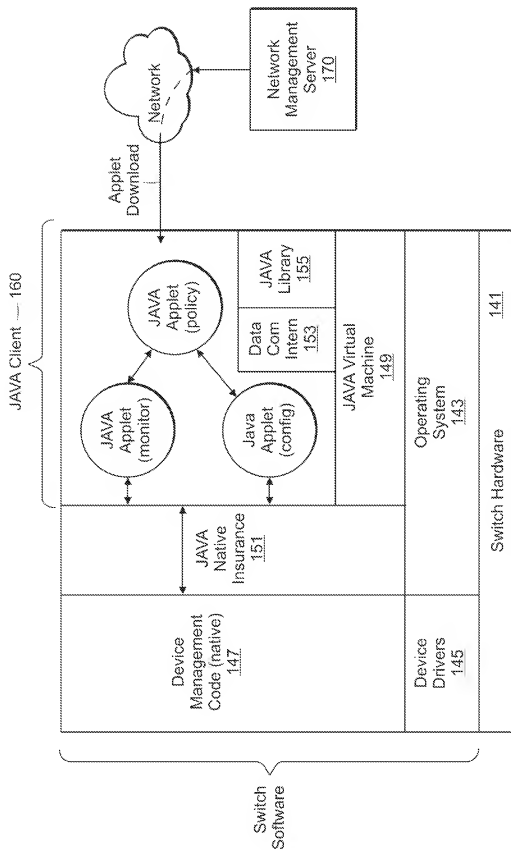
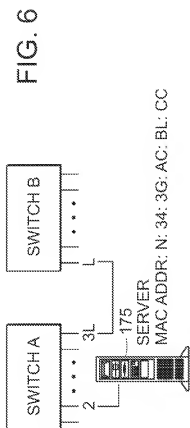


FIG. 5



```

MONITOR:
FOREVER
(
  READ_DEST_MAC_UTIL%(PORT1,MAC_ADDR A)
  READ_DEST_MAC_UTIL%(PORT1,MAC_ADDR B)
)
DELAY 10MS
178

```

```

POLICY ENFORCEMENT:
A%: LINE UTILIZATION % MAC_ADDR A
B%: LINE UTILIZATION % MAC_ADDR B
QA_S: QUEUE ASSIGNMENT OF SERVER MAC_ADDR TRAFFIC
QA_A: QUEUE ASSIGNMENT OF MAC_ADDR A TRAFFIC
QA_B: QUEUE ASSIGNMENT OF MAC_ADDR B TRAFFIC

DELTA = 5%
QA_S = QA_A = QA_B = PRI.Q
FOREVER
(
  GET A%, B% FROM MONITOR
  181 {
    IF (QA_A = PRI.Q AND QA_B = PRI.Q) AND
      ((A%+B%)>80%)
    QA_A = B.E.Q
    183 {
      IF (QA_A = B.E.Q AND QA_B = PRI.Q) AND
        ((A%+B%)<(80%-DELTA))
      QA_A = PRI.Q
      185 {
        IF (QA_A = B.E.Q AND QA_B = PRI.Q) AND
          (8%>80%)
          QA_B = B.E.Q
        187 {
          IF (QA_B = B.E.Q) AND
            (8%<(80%-DELTA))
            QA_B = PRI.Q
          DELAY 5MS
        }
      }
    }
  }
)
179

```

```

CONFIGURATION:
QA_A: QUEUE ASSIGNMENT OF MAC_ADDR A TRAFFIC
QA_B: QUEUE ASSIGNMENT OF MAC_ADDR B TRAFFIC
LAST_QA_A: QA_A HISTORY
LAST_QA_B: QA_B HISTORY

LAST_QA_A = LAST_QA_B = PRI.Q
FOREVER
(
  GET QA_A, QA_B FROM POLICY ENFORCEMENT
  IF (QA_A1 = LAST_QA_A)
  (
    MOVE_VIRTUAL_QUEUE (PORT1, MAC_ADDR A, QA_A)
    LAST_QA_A = QA_A
  )
  IF (QA_A1 = LAST_QA_A)
  (
    MOVE_VIRTUAL_QUEUE (PORT1, MAC_ADDR A, QA_A)
    LAST_QA_A = QA_A
  )
  DELAY 2.5MS
)
180

```